## TESLA'S YOUNG DAYS

The Famous Electrician Was Born in a Half Civilized Land.

SON OF A GREEK CLERGYMAN

He Was a Studious Youth, But Full of Fun-Built a Flying Machine at 12-His Education-His Love for His Mother.

In all probability Nikola Tesla knows more about electricity than any other man living. He stands at the head of those who, within the last twenty years, have done more to forge the bonds that have made the mystic current the useful slave of human kind. And yet Nikola Tesla's boyhood was mostly passed in a region where the ople are hardly more than haif civilized in their ways; a region over which Moslem and Caristian have waged bloody combat for centuries; a region of rugged, bleak mountains and narrow valleys and impetuous, rushing terrents. This region is known as Mon-tenegro; it is a narrow strip of country that lies between Austria and Turkey, and it takes its name from its own somber mountains.

Nikola was born in the little village of Smiljan, province of Lika, less than forty years ago. His father was a cler-glman of the Greek church, to which most Christians in Montenegro belong, and all through the boy's early years his most numerous acquaintances must have been the rough peasants of the neighborhood, some of whom were poor beyond description and many of whom were so ignorant that they could not even read. But in spite of their tack of cultivation and of cash the peasant men and women of Mon-tenegra are fine, strong folk, seeming to possess something of the ruggedness of their surroundings in their own person. They are brave, too, and they love their country and their religion, and in his youth Nikola must have heard many tales of heroic deeds done by his father's friends and neighbors in self defense against the Turks, who wished to rule the land and to force the people to change their faith. An American boy could hardly im-

agine anything more novel and strange than were this boy's surroundigs, Every man in Montenegro knows how to handle the rifle and all other weapons, for he is likely to-have need of them at almost any time, and everyone is an expert fisherman and hunter. They dress in the brightest colors, and even the poorest often wear clothes that are richly embroidered and otherwise ornamented. The women, too, attire themselves in what would here be considered fantastic garb, but, aside from what little farm work is done by the men, do nearly all the labor of the country. Sometimes the women do much of the outside work, even, and without complaint,—for have not the men enough to do to attend to the fighting and the politics of the country, and the shooting of game?

It is partly due to the attention given by the men to other things than work, and partly to the ruggedness of the region, that the people of Montenegro are so poor and so ignorant in the mass. Just how backward they are as dress in the brightest colors, and even

mass. Just how backward they are as to the comforts of life may be faintly hinted by the statement that in some parts of the country furthest removed from the larger towns, the bread is baked without yeast in the ashes of open fires, there being no ovens of any sort, nor even chimnies to carry off the smoke. The Montenegrins speak a language that would sound ex-tremely queer to American boys, It is described by linguists as pure "dia-lect of the Slavic," and is the nearest of all languages to the original Slavonic into which the Bible was translated, nearly a thousand years ago, for the benefit of the peoples of Central

But it must not be understood that all those who dwell in Montenegro are ignorant and uncultivated. As a people they are bright and quick, and their sayings are often of striking force. For instance, in examining the rocky nature of the soll, the Montene-grin will tell you that "When God was scattering stones over the earth a bag of them burst over Montenegro."
Among their leaders, too, are many who are highly cultivated. Tesla's father being a priest, he was, of course, an educated man, and it was probably because he saw that his son could not do his best in Montenegro that the boy was sent away from home at thirteen.

at thirteen.

When only a little lad Nikola was very fond of study. Not altogether the study of books, but largely of things, for, like all healthy boys, he was interested in all that he saw about him. His earliest notion was that it was a pity he should have to climb the hills with which his home was surrounded, since birds could fly wherever they wished to go, and with such small ap-parent effort. So, when only a little chap of twelve he set about making a flying machine, using an old umbrella for the foundation. Undoubtedly he had the same general ideas that were later adopted by Herr Lillienthal, the German who was killed the other day in one of his experiments, for like Lil-lienthal, young Tesla's plan was to start his flight by jumping from the top of a hill. His interest in flying died out, however, when he fell and was so badly hurt that he had to stay in bed for six weeks.

It was while he was laid up by this accident that he began to study mathe-

accident that he began to study mathematics and mastered arithmetic. He had an idea that all problems in the science of numbers could be solved by the proper use of the number three and its "powers," but whether he proved his theory he has never told. He had then been seven years in school had then been seven years in school, hav-ing spent thre years in the Real Schule at Smiljan and four in the public school at Gospic, to which his father had removed. Gospic was a larger place than Smiljan, though only a very

small town, but there were many more things there to interest him than there had been at Smiljan. .His father decided, however, that the



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his father's home at Gospic. But the disease sought him out and when he recovered, he was so weak, that for two years he remained at home and rested from his studies.

It was while he was at home then, that he managed to get his father to agree to a scientific career. When the boy was eighteen he was sent to Gratz, in Austria, to study for a professorship in mathematics and physics, At Gratz he saw, for the first time, a Gramme electrical machine, though he had prehad been at Smiljan.

His father decided however, that the electrical machine, though he had prenot sufficient for his on, and so the lad was sent to live with his aunt in Caristadt. Crotia, where he was to finish his schooling. It was while on his way to Caristadt that he saw a gleam, engine for the first time, and it filled him with the greatest delight. It was then, too, that he determined to make electricity having constructed with his properties of the boy in the right place. How long the might have remained there no one knows, had he not finally thought of ringing the chapel bell. Loud and clear through the narrow valley echoed the sound as he pulled the rope, and, seam, to caristadt that he saw a gleam, and it filled him with the greatest delight. It was then, too, that he determined not to be a clergyman like his father, as the latter wished, but to devote himself to sclence; and he studied so hard at Carlstadt that he was able to finish a four years' course in three years' time and to graduate in 1873, when he was only sixteen years old.

Then there was an epidemic of cholera and because of this he returned to the different for his on, and so the lad with the operated with the power of a toy water wheel. As soon as the saw the Gramme machine he determined to make electricity having constructed with his own hands a rude little generated with the power of a toy water wheel. As soon as the might have remained there no one knows, had he not finally thought of the soy in the right place. How long the chapel bell. Loud and the wish had be nearly the power of the mar whose success. It should be said of the man whose the hap a part of a toy water wheel. As soon as the might have remained there no one knows, had he not finally thought of the boy in the right place. How long the had proved the sound and proved the sound as the pull. Loud and the wish his authough the influence of the said though the whose success has been so great, that although the power had the sound as the pull the power of the said to the ch

young Tesla missed any fun that was

going, just because he was forward in

his studies. On the contrary he was al-

many boyish adventures as he him-

pearance on the scene when he was up to some piece of mischief that he fell into a great kettle of fresh milk, spotling the milk and his crothes at the ways full of juvenile tricks, and had same time. She was a woman of un-usual ability, force of character and ingenuity. The latter characteristic many boyish adventures as he him-self has often declared. Once he went by himself to a little chapel away up in the hills back of Gospic, and in some way was locked in for hours. In the meantime he was missed by his father, who organized a searching party, but of course never thought of looking for the boy in the right place. How long he might have remained there no one was mostly developed in her embroidery, which was of artistic and original designs, and made her famous all through that part of Montenegro in which she lived. To his mother's love and influence Tesla attributes much of

to see the day when all alike, both rich and poor, should snare equally in the advantages of all scientific dis-

Those Following Eyes.

From Notes and Queries. Wallasto's curious discovery was that by adding to each pair of eyes a nose directed to the right or left the eyes lose their front direction and look to the right or left, according to the direction of the nose. By means of a flap representing the lower features in a different position, as Dr. Wallaston remarks, "a lost look of devout abstraction in an uplifted counte-nance may be exchanged for an appear-ance of inquisitive archaess in the leer of a younger face turned downward and obliquely toward the opposite side." As by changing the direction of the lower features we change the direction of

the eyes, so by changing our position the eye of the portrait apparently fol-

between the eyes there will be the same breadth of head, of cheek, of chin and of neck on each side of this middle line, "But that would be practically the abolution of poverty and riches," the writer ventured to say.

"Precisely so," answered Tesla, "and that is what I believe will bye and bye be accomplished by man's industries and utilization of nature's mysteries."

Osbore Spencer.

Osbore Spencer. middle line will be diminished equally, and at any position, however objust, there will be the same breadth of face on each side of the middle line and the iris will be in the center of the whole of the eyeball, so that, being on a flat and the iris will be seen in front of surface, the iris will be seen in front of the picture or obliquely.

through the tip of the nose and half way

Quiet smiles. From the Buffalo Express. Mrs. Youngwife-Isn't it strange how bashful the men are about laughing in our presence?

our presence?

Mrs. Longwed—How so?

Mrs. Youngwife—Why, every little
while some man says to my husband:
"Come on, let's go out and have a smile." I really can't see why they should with-

draw for that purpose. Mrs. Longwed-Oh, you will understand it after a time. They go where humor is lows us. If a vertical line be drawn to be had in 15 cent quantities.